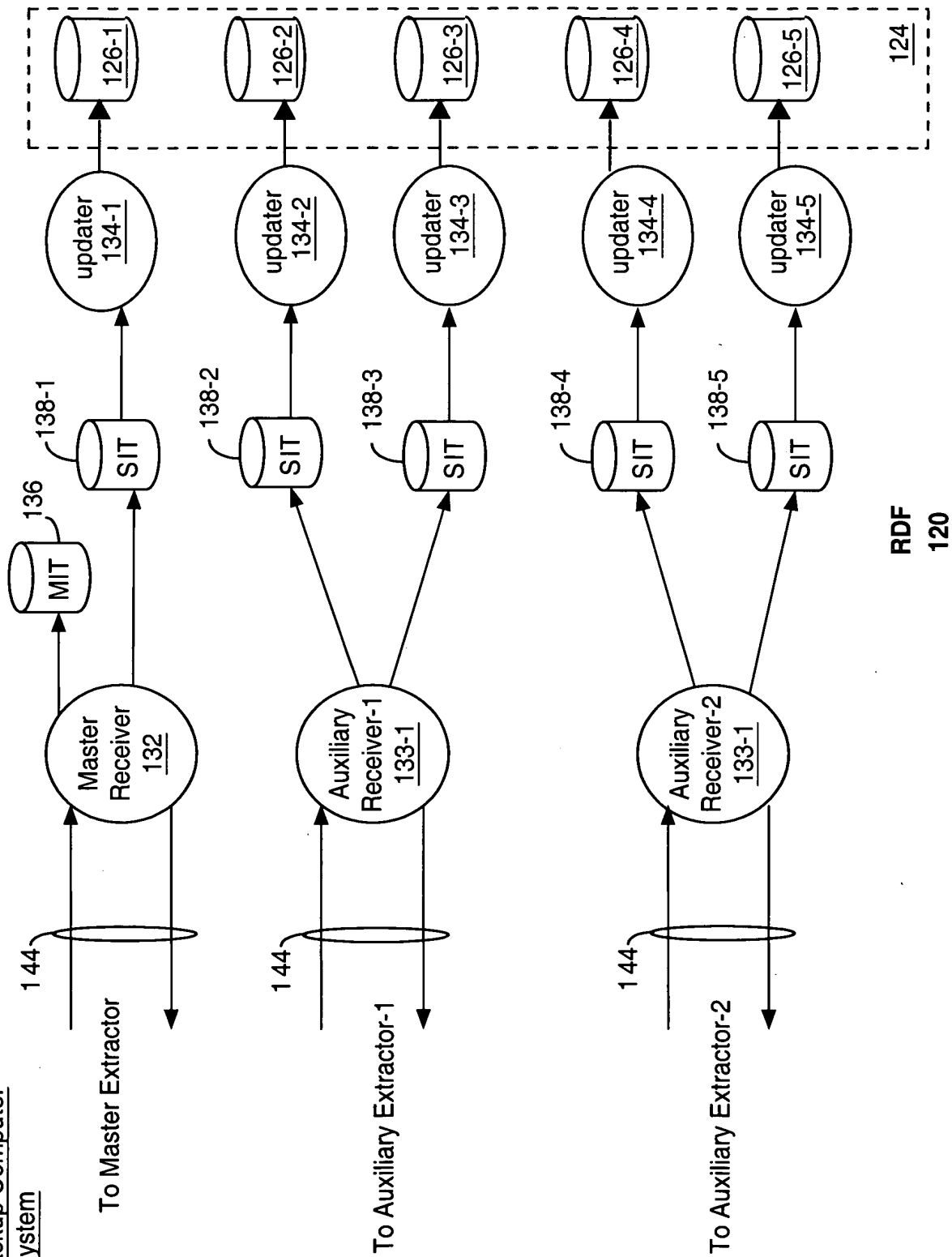


Remote Backup Computer
System



RDF
120

Fig. 1B

Local Primary Computer System

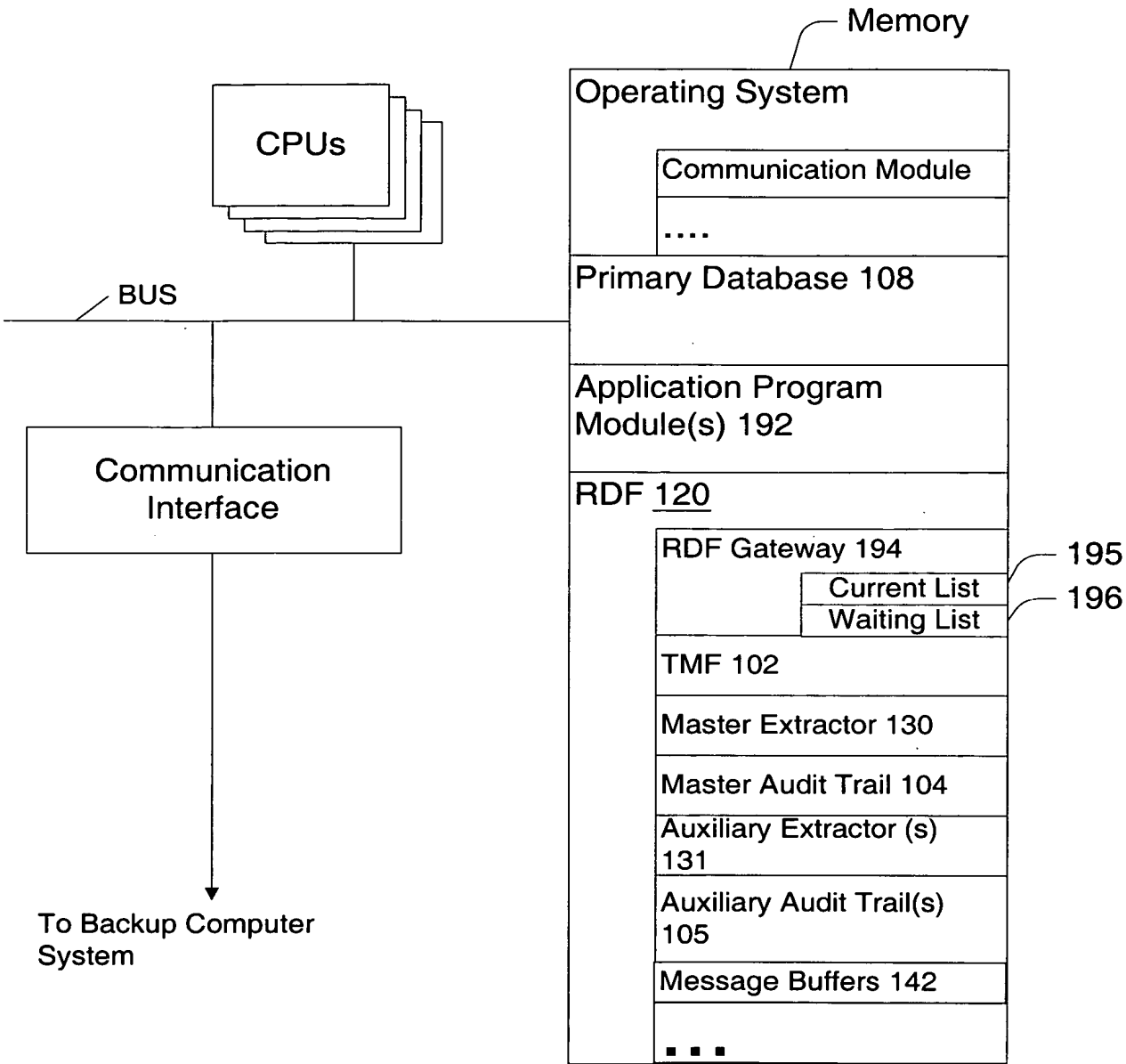


Fig. 1C

10056145.012202
202210.549500f

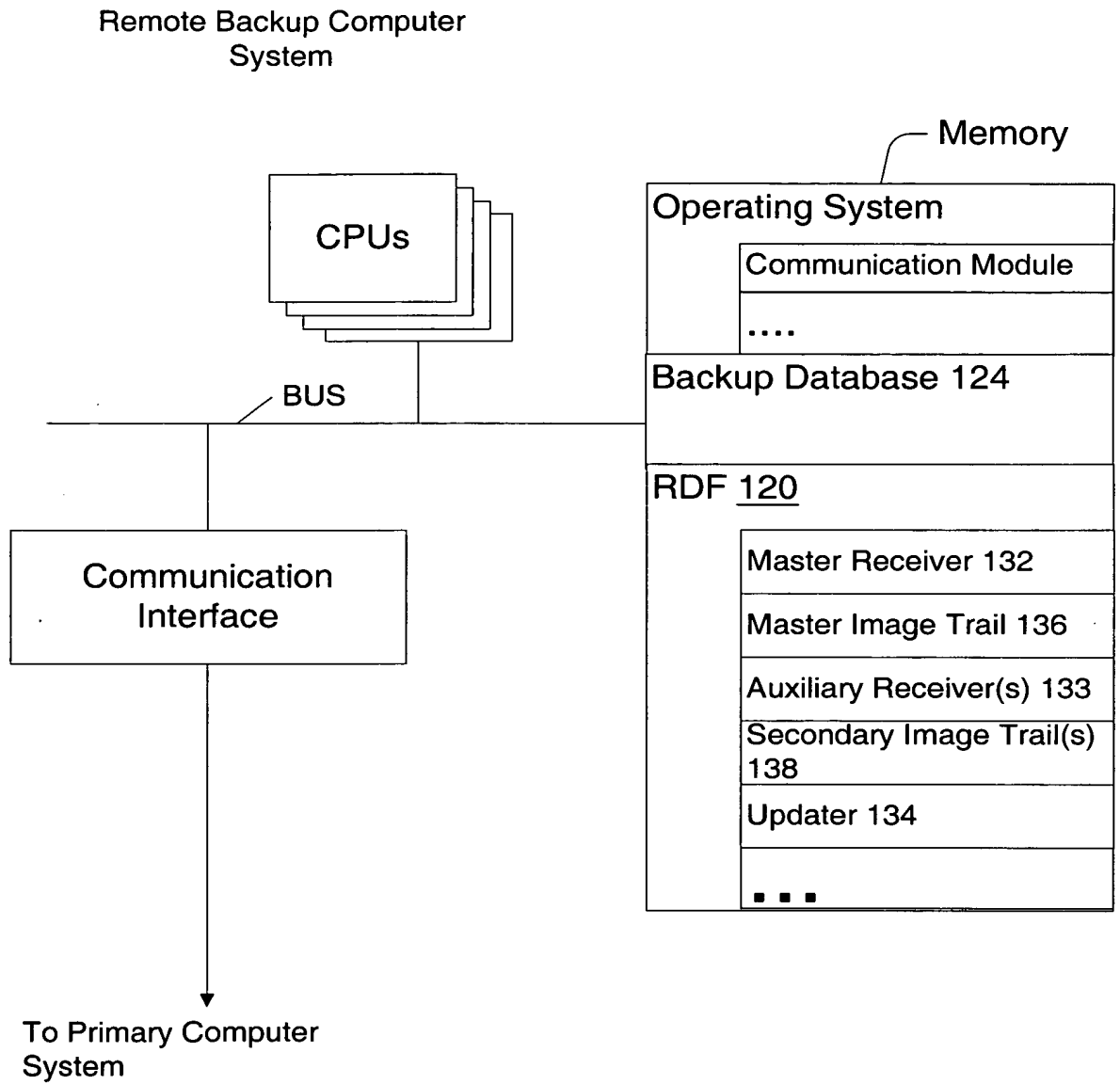


Fig. 1D

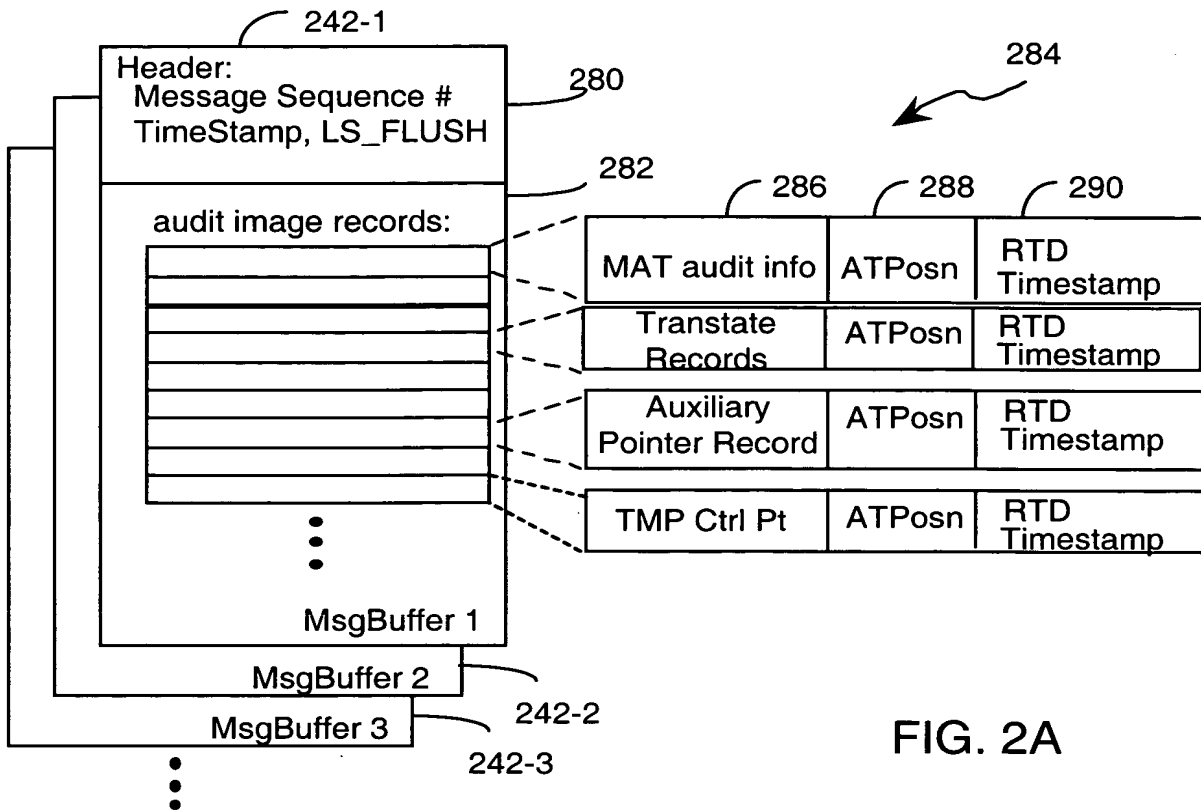


FIG. 2A

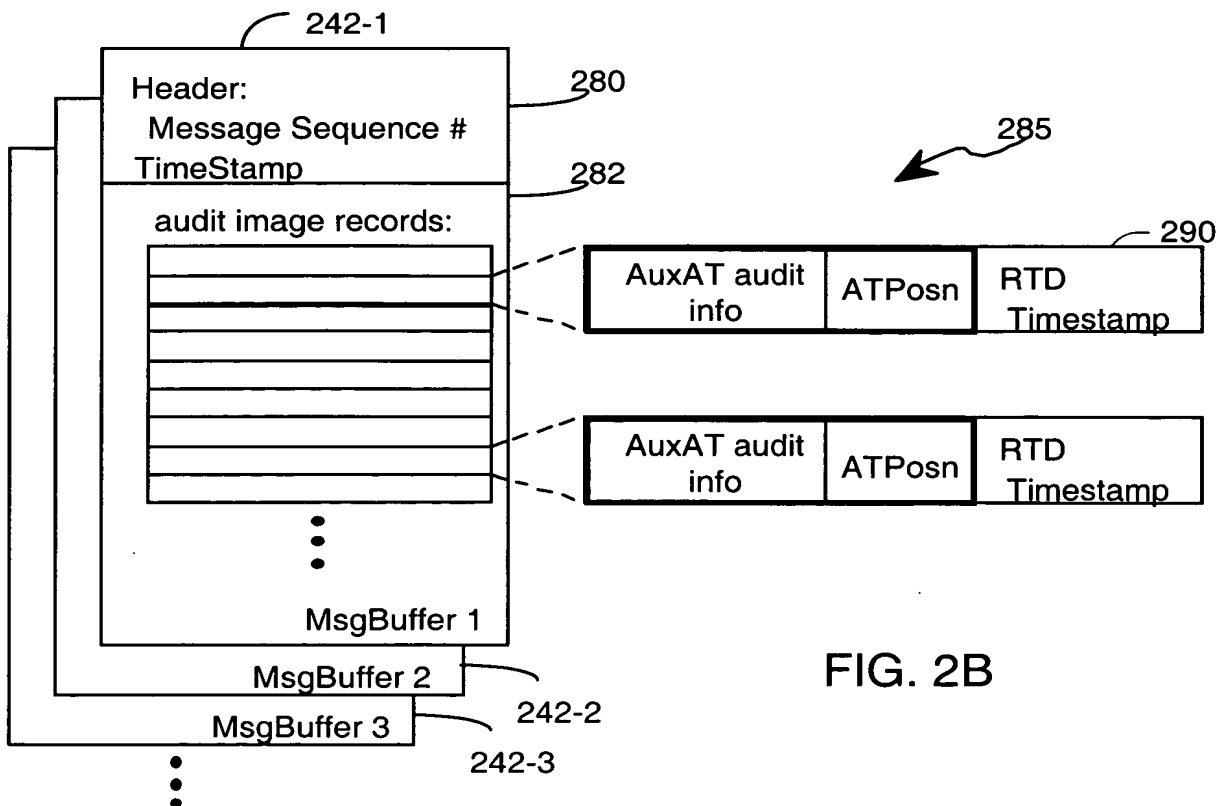


FIG. 2B

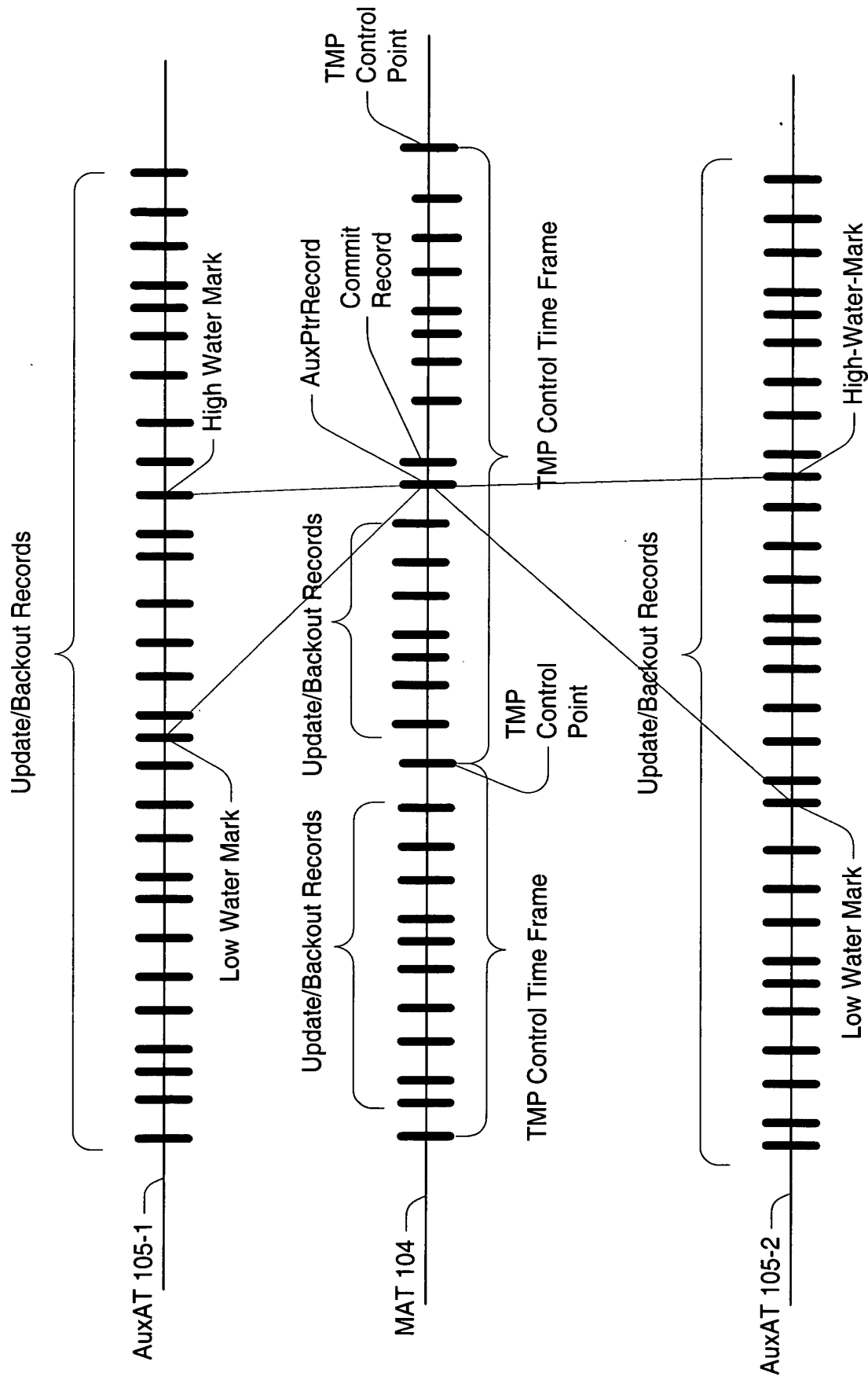
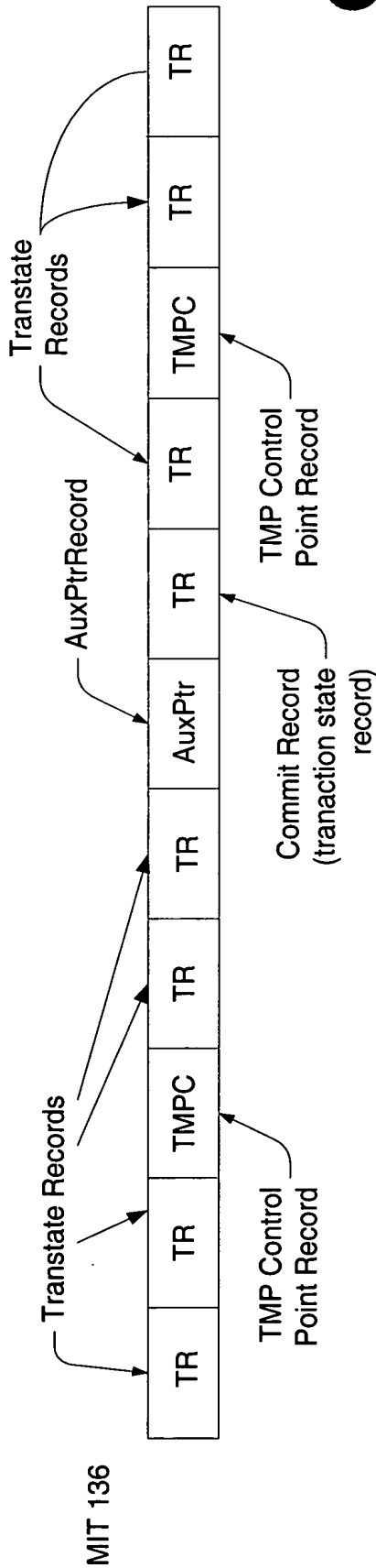


Fig. 3



MAT-based SIT 138-1



AuxAT-based SIT 138-3

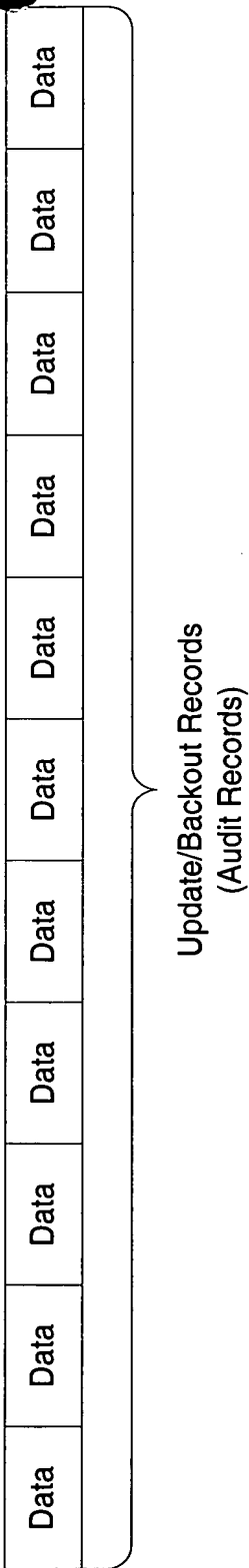


Fig. 4

Application

Begin Transaction
Log updates made
to Data Volume. 510

End Transaction
Log updates flushed
to disk in front of Commit
Record. 520

DoLockStep
Send a LockStep
Request to RDF
Gateway and waits for
reply. 530
If RDF Gateway does
not exist, then return
LockStepNotDone to
application.

Application program
resumes execution. 540

RDF Gateway

LockStep
Request

Begin LockStep
Transaction;
Update LockStep File;
End LockStep
Transaction
Send Gateway_MSG
(Containing TransID of
this transaction) to
Master Extractor 550

LockStep
Reply

Master Extractor

Gateway MSG

Master Extractor
ensures safe storage of
all audit updates prior to
and including the audit
record record associated
with the LockStep
transaction. 560

← Gateway MSG reply

Fig. 5

2022105415001

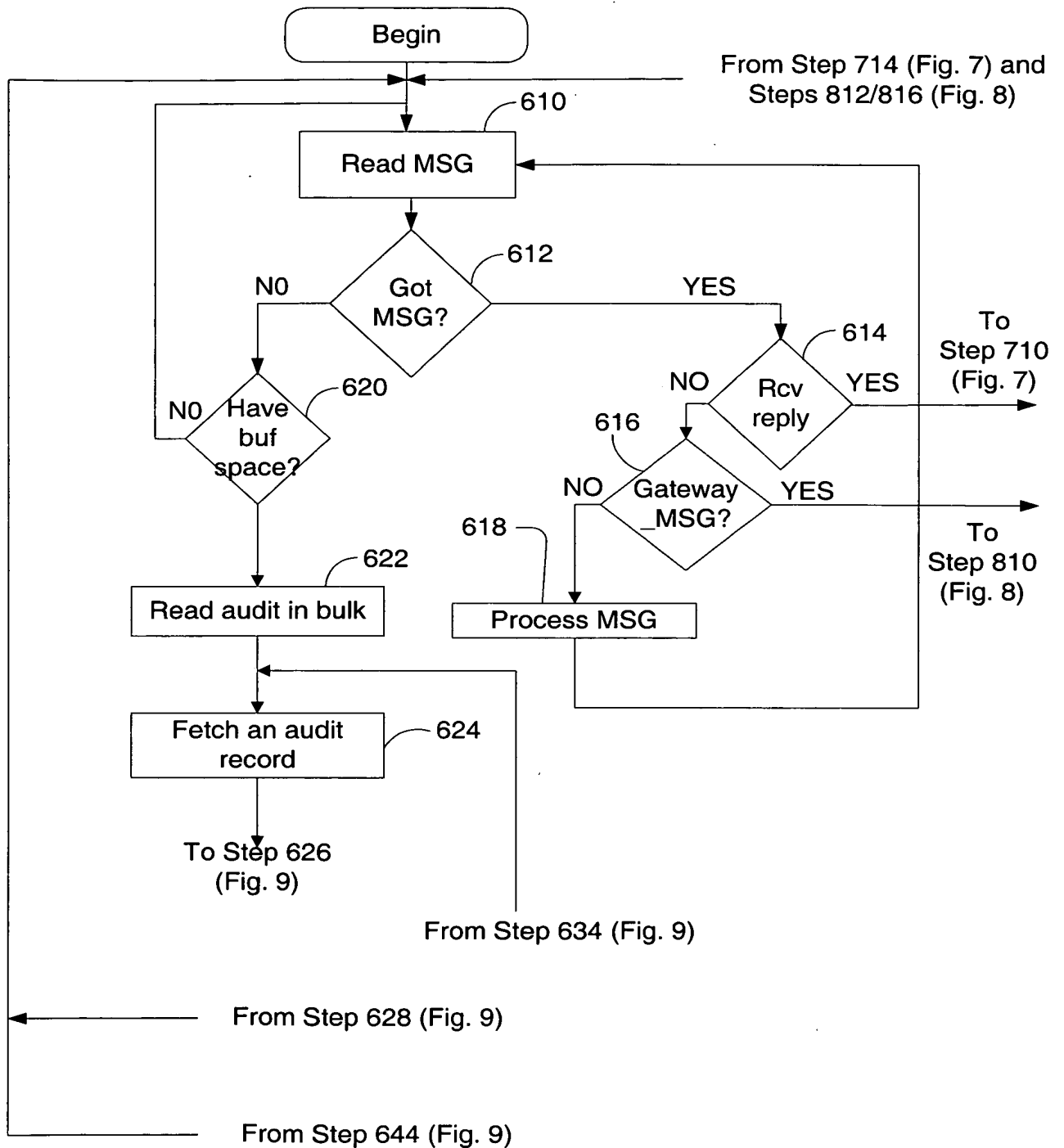


FIG. 6

20221015 10:56:45

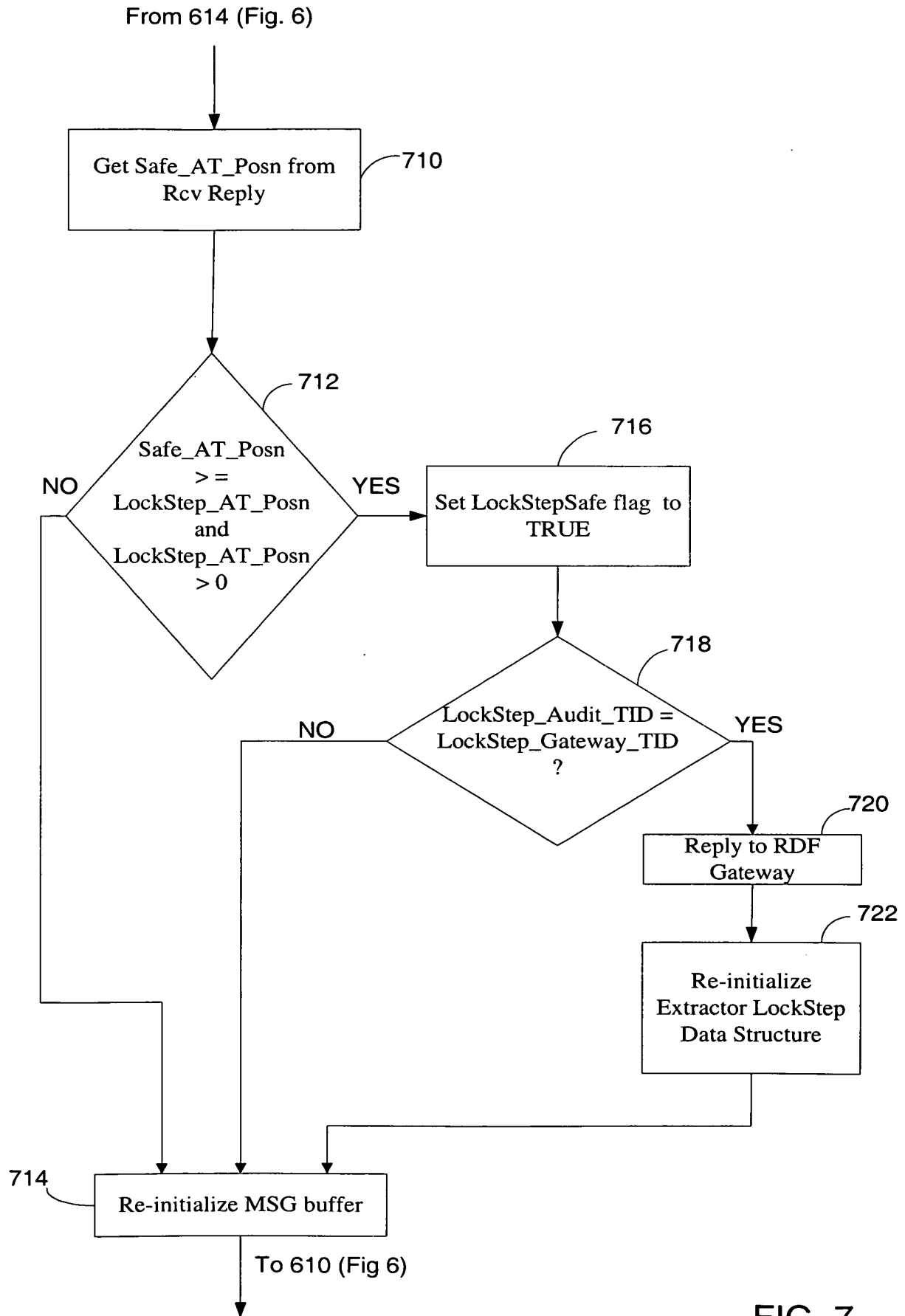


FIG. 7

2025 RELEASE UNDER E.O. 14176

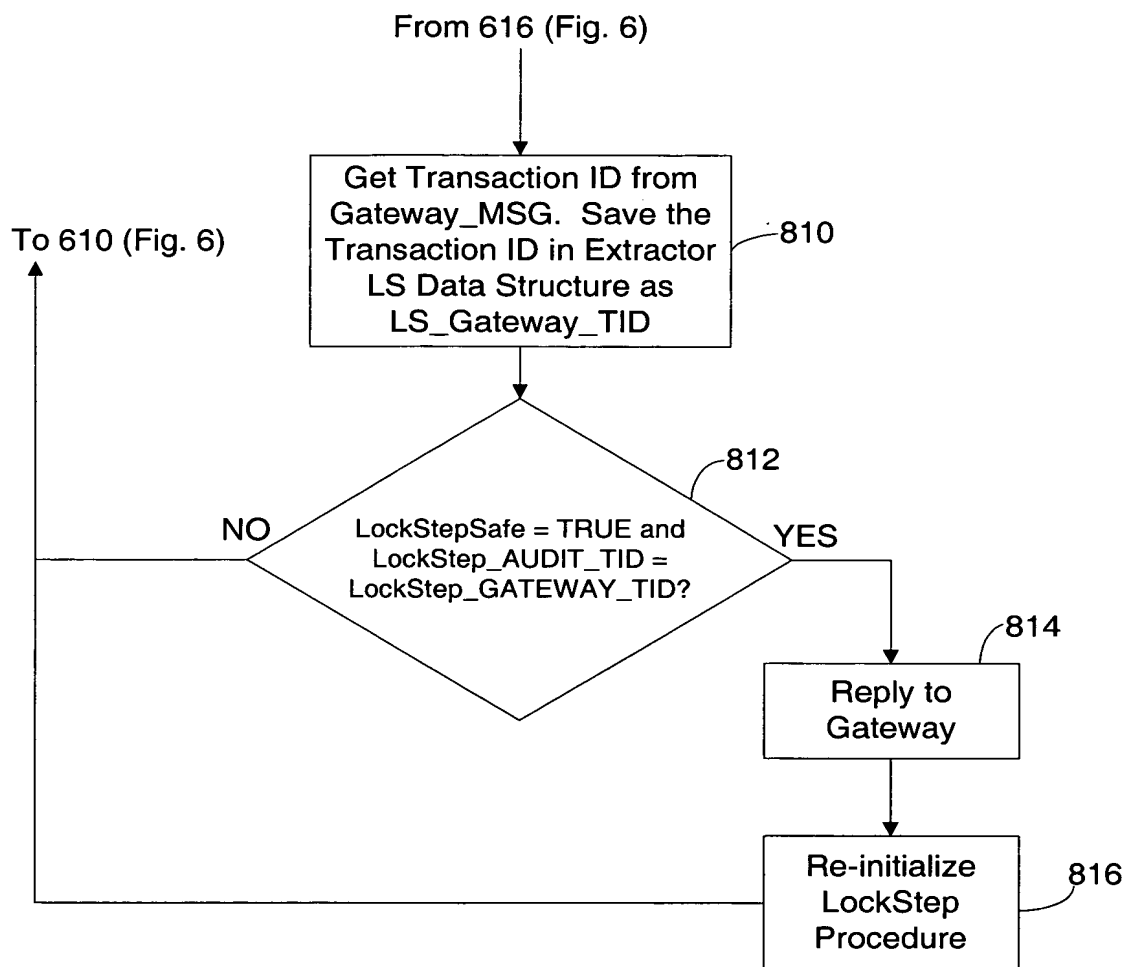
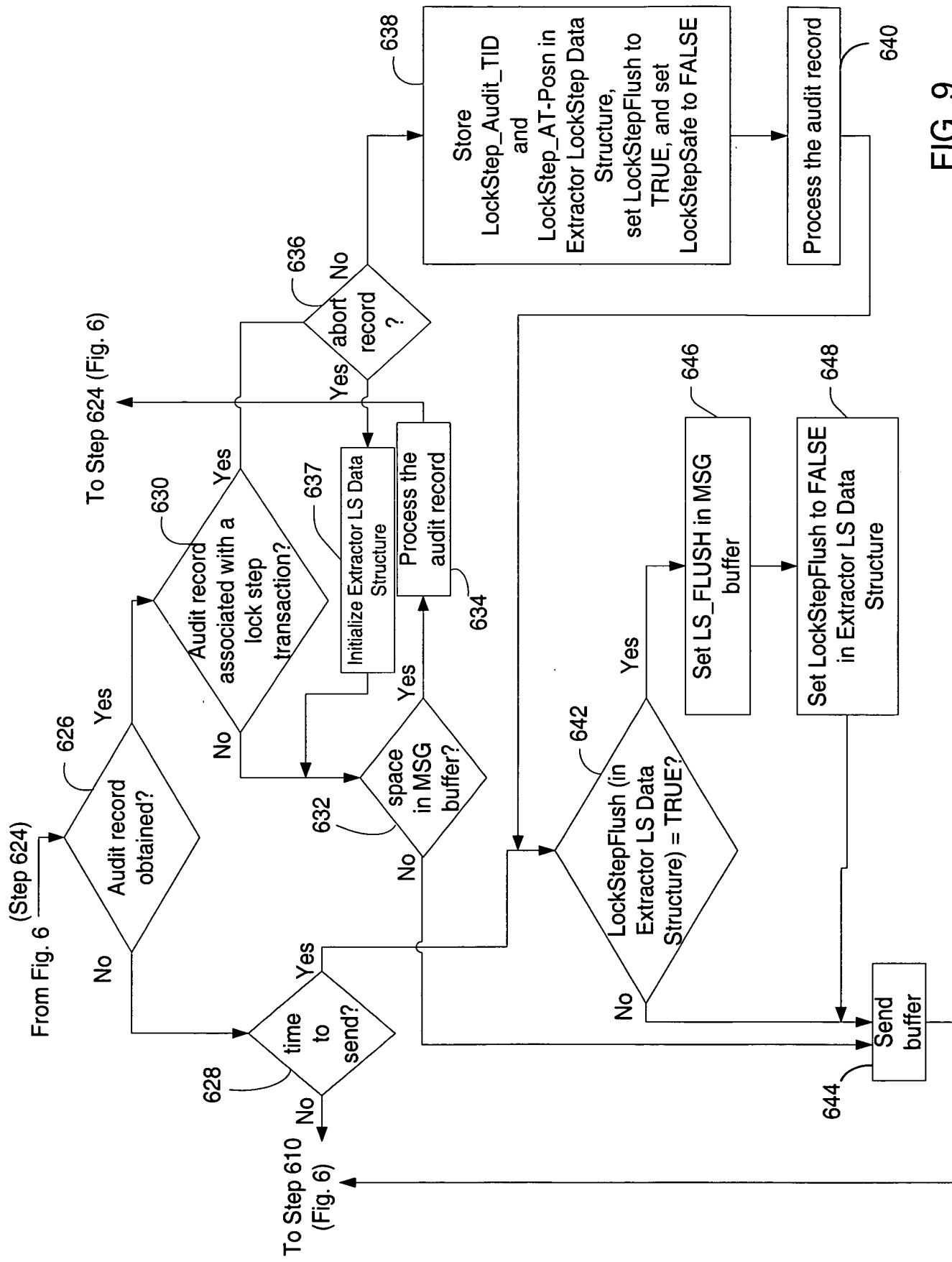
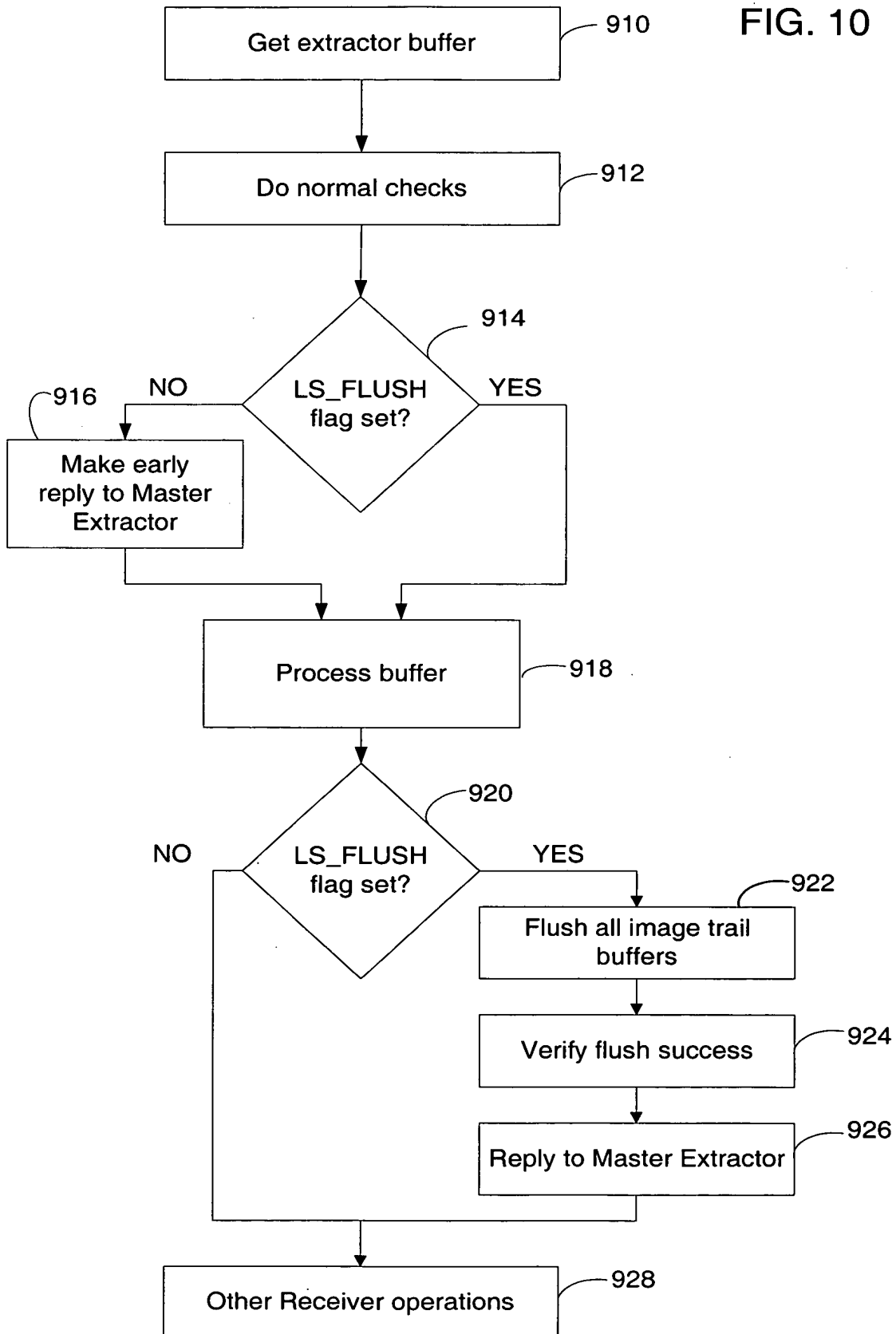


FIG. 8



Master Receiver

FIG. 10



Extractor
LockStep data
structure 900

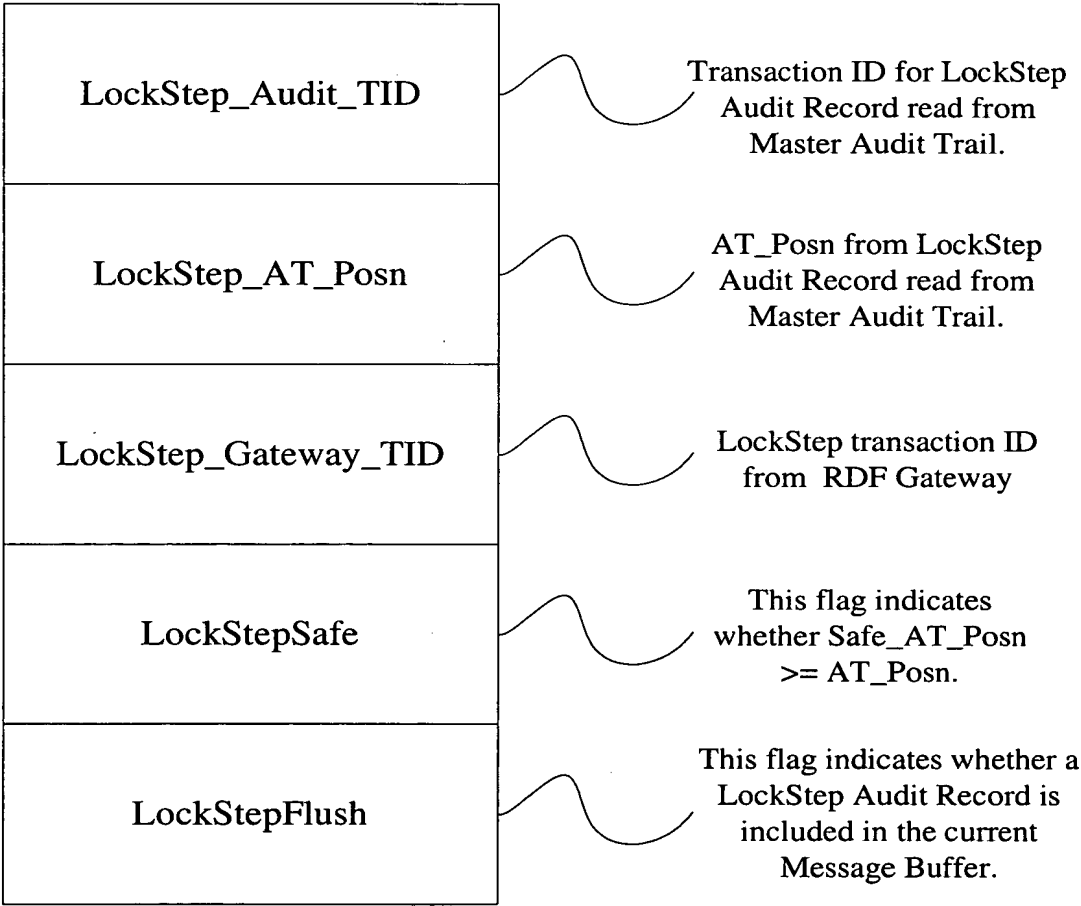


FIG. 11